

**PROJECT:** Midnite Mine Remediation

**REPORT NO:** 2019-006

**OWNER:** Newmont/Dawn Mining

**OPERATOR:** Newmont/Dawn Mining

## Summary of Work Activities or Events for this reporting period:

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period May 3 - 9, 2019. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: <https://amcollab.mwhtools.com/sites/midnitemine>

## SITE HEALTH, SAFETY, AND SECURITY

### MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period May 3 – 9, 2019

|  |   |   |   |
|--|---|---|---|
| FIRST AID INJURY   | 0 | PROPERTY DAMAGE                                   | 0 |
| MEDICALLY TREATED INJURY   | 0 | NEAR MISS INCIDENT                                | 0 |
| RESTRICTED WORK INJURY   | 0 | RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED | 0 |
| LOST TIME INJURY   | 0 |   |   |
| Comments: No Incidents to report. Project Monthly Safety meeting was conducted on May 7 for both day and night shifts. April's safety and production metrics were reviewed to include lessons learned. Safety Focus topics included Anaphylaxis and Epi Pen use / awareness and Near Miss / Hazard reporting importance. |   |   |   |

## COMMUNITY LIAISON

No issues or concerns were reported or received by Newmont from the Spokane Tribe of Indians Community Liaison Officer for the reporting period. Tribal Community Liaison advised that a Community meeting is being planned for May 13 and 14, 2019.

## PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS

### Weekly Progress Meeting:

The Weekly Construction Progress meeting was held at 1000 hours on Wednesday, May 8, 2019 at the on-site conference room and via conference call. Representatives from the following stakeholders attended the meeting in person or via telephone:

- EPA
- Jacobs
- US Army Corps of Engineers
- Spokane Tribe of Indians
- Dawn Mining Company (DMC)/Newmont
- Stantec
- WME

### Meeting Action Items:

- None.

### **EPA Plan/Document Approvals:**

- EPA approved the Area 5 Lunchroom Relocation Plan on May 6
- EPA approved the 2018 Remedial Action Summary Report on May 9.

### **Regulatory Site Visit(s):**

- Mark Fillius of the US Army Corps of Engineers representing EPA was on site May 6 through May 9.

## **REMEDIAL WORK ACTIVITIES**

### **Construction:**

During the week of May 3 – 9, 2019, the following activities were conducted:

- Excavating, hauling and placing material from the Lime Protore Stockpile 8 (Stockpile 8, low reactivity material), Protore Stockpile 4 (Stockpile 4, high activity/high reactivity material), Ore & Protore Stockpile 5 (Stockpile 5, high activity/high reactivity material) and South Waste Rock Pile (SWRP, low activity/low reactivity material) continued. Material from SWRP and Stockpile 8 were placed on the east and west side of Pit 4 to create the 20' rind buffer area. Some material from SWRP was placed at the south end of the pit to start forming the 20' rind for the top surface. The materials were excavated with either excavator or loader equipment and transported and plug dumped with haul trucks. The plug dumps were leveled with a dozer into lifts not exceeding 10' thick. Table 1 presents the 2019 Pit 4 mass haul materials volume.

**Table 1 – 2019 Pit 4 mass haul volume estimates**

| <b>Reporting Period</b> | <b>Truck Loads</b> | <b>Estimated Volume<sup>1</sup><br/>yd<sup>3</sup></b> |
|-------------------------|--------------------|--|
| May 3 - 9, 2019         | 3,201              | 89,628   |
| 2019 Cumulative         | 17,520             | 490,560  |

<sup>1</sup> – Truck load assumed to be 28 yd<sup>3</sup>

- Completed fusion welding of the 4"x8" dual containment pipe for the Infiltration Collection system on the west side of Pit 4 and completed hydrostatic pressure testing of the 4" carrier pipe on May 7 and pneumatic pressure testing of the 8" containment pipe on May 8. The pipeline was installed on May 8 and 9.
- Continued excavations for the west Infiltration Collectors.
- Material from the Construction Support Zone Structure Demolition Temporary Stockpile (CSZ SDTS) was placed in Pit 4 on April 29. CQC and CQA personnel confirmed on April 30 that the material was placed in conformance with the project requirement.
- Began excavating the Infiltration Collector channels on the west slope of Pit 4 on May 2.
- Pit 4 tension crack was measured on May 6. The horizontal distance between movement pins remains at 53.75 inches.
- Placed material around the dewatering risers with verticality of the risers verified during material placement using GPS equipment. The vertical risers remain at 220' to the Underdrain Sump (UDS) and 180' to the Waste Rock Dewatering Sump (WRDS).

### **Stormwater Pollution Prevention Plan (SWPPP) Activities**

- Monthly SWPPP inspection was performed on May 9. No new erosion features or maintenance items were identified.
- The gully on the west slope of Area 5 was repaired on May 3.

### Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- None

The following equipment was demobilized from the Site during this reporting period.

- None

All non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

### Materials:

The following material was delivered to the Site during this reporting period.

- None

### Dust Control and Monitoring

Six dust monitors were operated during construction activities at the locations and for the time intervals listed in Table 2. The Total Suspended Particulate (TSP) action level of 260 micrograms/cubic meter was not exceeded during the reporting period.

**Table 2 - TSP Dust Monitoring Locations during reporting period May 3 – 9, 2019**

| Monitor ID  | Location Description                             | Start Date | Status |     |     |     |     |     |     |
|---|--|------------|--------|-----|-----|-----|-----|-----|-----|
|   |  |            | Fri    | Sat | Sun | Mon | Tue | Wed | Thu |
| ES-1 (stationary)   | Midnite Mine Top of Pit 4                        | 04/01/19   | D/N    |     |     | D/N | D/N | D/N | D/N |
| ES-2 (stationary)   | Midnite Mine Southeast Boundary                  | 04/01/19   | D/N    |     |     | D/N | D/N | D/N | D/N |
| ES-3 (stationary)   | Midnite Mine West Boundary                       | 04/01/19   | D/N    |     |     | D/N | D/N | D/N | D/N |
| ES-4 (roving)   | Top of Stockpile 3                               | 04/30/19   | D/N    |     |     | D/N | D/N | D/N | D/N |
| ES-5 (roving)   | Spare  |            |        |     |     |     |     |     |     |
| ES-6 (roving)   | East Side of Pit 4 next to portable light plant. | 04/01/19   | D/N    |     |     | D/N | D/N | D/N | D/N |
| ES-7 (roving)   | Southeast corner of Area 5                       | 04/02/19   | D/N    |     |     | D/N | D/N | D/N | D/N |
| ES-8 (roving)   | Spare  |            |        |     |     |     |     |     |     |
| D=Day Shift (6:00 am to 4:30 pm)<br>N=Night Shift (4:00 pm to 2:30 am)<br>E=Environmental conditions (Fog, smoke, pollen, etc.) – No Operation<br>* Equipment malfunction (Battery) |  |            |        |     |     |     |     |     |     |

## PROJECT DOCUMENTATION

Project Submittals, Engineering Change Notices (ECNs), Requests for Information (RFIs), Non-Compliance Notifications (NCNs), CQA-CQC Field Acceptance Forms and Other Items received, changed or noted before or during this time-period are shown in the table below:

**Table 3 – CQA Documentation**

| Project Submittals             |  |                    |                    |
|--------------------------------|--|--------------------|--------------------|
| Submittal No.                  | Title  | Submittal Date     | CQA Approval Date  |
| 02272-06                       | South Pond Geomembrane   | 4/24/2019          | 5/3/2019           |
| 02275-02                       | South Pond Geonet  | 4/25/2019          | 5/3/2019           |
| Project ECNs                   |  |                    |                    |
| ECN No.                        | Title  | EPA Submittal Date | EPA Response Date  |
| None                           |  |                    |                    |
| Project RFIs                   |  |                    |                    |
| RFI No.                        | Title  | CQC Submittal Date | CQA Response Date  |
| RFI 2019-04                    | Request for Additional Information on South Pond Materials I   | 5/3/2019           | 5/3/2019           |
| RFI 2019-05                    | Request for Additional Information on Infiltration Collection System Cross Section   | 5/3/2019           | 5/3/2019           |
| RFI 2019-06                    | Request for Additional Information on South Pond Materials II  | 5/7/2019           | TBD                |
| RFI 2019-07                    | Request for Change to Non-Prorated Warranty Requirements for Geomembrane, Geonet and Geocomposite Drainage Layer Materials | 5/7/2019           | TBD                |
| Project NCNs                   |  |                    |                    |
| NCN No.                        | Title  | CQA Issue Date     | CQC Response Date  |
| None to Date                   |  |                    |                    |
| CQA-CQC Field Acceptance Forms |  |                    |                    |
| Acceptance No.                 | Title  |                    | CQC-CQA Issue Date |
| 2019-01                        | Stockpile 8 Excavation Verification Survey – West Side   |                    | 5/3/2019           |
| Other Items                    |  |                    |                    |
| Item                           | Title  |                    | Comments           |
| None                           |  |                    |                    |

A copy of the updated CQA Logs are provided on the project SharePoint site under the 2019 CQA Folder.

## SITE INSPECTIONS

Details regarding the four-phase CQA observation/inspection process for each definable work feature is summarized above within each work-feature section and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

### Preparatory Inspections / Meetings

- None during this time-period.

### Initial Phase Inspections

- None during this time-period.

### Follow-up Phase and Ongoing Inspections

Daily observations/inspections by CQA during Pit 4 backfill and other construction activities for the following site-specific tasks:

- Pit 4 Backfill
  - Mine waste excavated from Stockpile 8 and the North SWRP (low reactivity material) was placed along the edges of the pit to construct the 20-foot buffer zone (rind). Mine waste

excavated from Stockpile 4 (high reactivity/high activity material) was placed in areas of the pit bounded by the 20-foot buffer zone.

- WRDS/UDS Risers
  - Risers were backfilled and leveled.
  - Bentonite and water was placed in the annular area between risers and friction sleeves.
    - UDS risers are at a total depth of 220 feet.
    - WRDS risers are at a total of 180 feet.
- West Side Infiltration Collection System (WICS)
  - Another 360 feet of 8"x4" DR17x11 HDPE dual-wall containment pipe and 80 feet of 4-inch DR11 HDPE pipe were welded together for the trenched section of the WICS. The total 800-foot long 4-inch carrier pipe portion of the pipeline was hydrotested and the 720-foot long annular area between the 4-inch carrier and 8-inch containment pipe was air-pressure tested. Test results were accepted by CQC and CQA.
  - The trenched section of the WICS was excavated and subgrade accepted by both CQC and CQA. Pipe bedding was placed to the required depth and compacted. The 800-foot long pipeline was placed in the bedded trench and connected to the HDS vault located in Area 5. Bedding depths below and above the pipeline were surveyed and verified by CQC.
  - Excavation continued for the WICS channel section along the west side of Pit 4.

#### Completion Inspections

- None

### THREE WEEK LOOKAHEAD SCHEDULE

#### Three Week Lookahead Schedule

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:

David Lee  
Project Construction Director

Attachments

- Attachment A – Midnite Mine 3 Week Lookahead Schedule

Photos of pertinent items are provided below.





**Figure 1 – Pit 4 Overview, Looking South**



**Figure 2 – 390 excavator starting excavation of the South Pond.**





**Figure 3 – 390 excavator loading SWRP material from the north end of the SWRP.**



**Figure 4 - West Infiltration Collector in progress.**





**Figure 5 – West Infiltration Collector as seen from the Pit 4 overlook looking south.**



**Figure 6 – WICS Pipeline, Looking South**



**ATTACHMENT A**

**MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE**

| Midnite Mine 2019 Production Schedule |   |            | Midnite Mine Remedial Action 3 Week Look Ahead Schedule |             |                    |          | Data Date: 09-May-19<br>Print Date: 10-May-19 |    |    |    |                             |           |  |
|---------------------------------------|---|------------|---|-------------|--------------------|----------|---|----|----|----|-----------------------------|-----------|--|
| Activity ID                           | Activity Name   | % Complete | Remaining Duration                                      | Start       | Midnite Work Resp. | May 2019 |   |    |    |    |                             | June 2019 |  |
|                                       |   |            |   |             |                    | 05       | 12  | 19 | 26 | 02 | 09                          |           |  |
| Midnite Mine 2019 Production Schedule |   |            | 124   | 01-Apr-19 A |                    |          |   |    |    |    |                             |           |  |
| Project Operations                    |   |            | 124   | 01-Apr-19 A |                    |          |   |    |    |    |                             |           |  |
| Pit 4 Operations                      |   |            | 124   | 16-Apr-19 A |                    |          |   |    |    |    |                             |           |  |
| DR10                                  | Install Pit 4 Underdrain Dewatering Risers (LOE)              | 68%        | 124   | 16-Apr-19 A | NMC                |          |   |    |    |    |                             |           |  |
| DR20                                  | Install Pit 4 Waste Rock Dewatering Risers (LOE)              | 66%        | 124   | 16-Apr-19 A | NMC                |          |   |    |    |    |                             |           |  |
| IC10                                  | Install Pit 4 Infiltration Collectors (LOE)                   | 17%        | 124   | 22-Apr-19 A | NMC                |          |   |    |    |    |                             |           |  |
| WTP & South Pond Excavation to Pit 4  |   |            | 79  | 01-Apr-19 A |                    |          |   |    |    |    |                             |           |  |
| Stockpiles 8, 3 and 4                 |   |            | 62  | 01-Apr-19 A |                    |          |   |    |    |    |                             |           |  |
| SP8-10                                | Excavate and Haul remaining portions of Stockpiles 8, 3 and 4 | 43%        | 62  | 01-Apr-19 A | NMC                |          |   |    |    |    |                             |           |  |
| South Pond                            |   |            | 79  | 06-May-19 A |                    |          |   |    |    |    |                             |           |  |
| SP3,4&SoPond-30                       | Excavate and Haul South Pond to Pit 4                         | 1%         | 79  | 06-May-19 A | NMC                |          |   |    |    |    |                             |           |  |
| SWRP (South Waste Rock Pile) to Pit 4 |   |            | 53  | 01-Apr-19 A |                    |          |   |    |    |    |                             |           |  |
| SWRP North                            |   |            | 53  | 01-Apr-19 A |                    |          |   |    |    |    |                             |           |  |
| SWRP-N-10                             | Excavate and Haul SWRP North to Pit 4 (Part 1)                | 8%         | 53  | 01-Apr-19 A | NMC                |          |   |    |    |    |                             |           |  |
| SWRP Ramp to CSZ+WTP                  |   |            | 20  | 09-May-19   |                    |          |   |    |    |    |                             |           |  |
| SWRP-CSZ+WTP-10                       | Excavate and Haul SWRP Ramp to CSZ+WTP to Pit 4               | 0%         | 20  | 09-May-19   | NMC                |          |   |    |    |    | Excavate and Haul SWRP Ramp |           |  |

◆ ◆ Current Milestone

■ ■ Critical Remaining Work


■ Actual Work

■ Remaining Level of Effort

■ Remaining Work

■ Actual Level of Effort

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◆ Current Milestone  
 Actual Work  
 Remaining Work  
 Critical Remaining Work  
 Remaining Level of Effort  
 Actual Level of Effort